## THE CLAIMS

- 1. (currently amended) A method for reducing vascular hyperreactivity in vascular muscle cells comprising exposing the vascular muscle cells to an effective amount of a selective estrogen beta receptor agonist that has a higher relative selectivity than does genistein for estrogen receptor beta compared to estrogen receptor alpha is selected from the group consisting of 5α-androstane-3β,17β-diol, a derivative of 5α-androstane-3β,17β-diol that has estrogen beta receptor agonist activity, epiestriol, and diarylpropionitrile.
- 2. (previously presented) The method of claim 1 wherein the vascular hyperreactivity is manifested by coronary arterial vasospasm.
- 3. (previously presented) The method of claim 1 wherein the vascular hyperreactivity is manifested by hyperreactivity of peripheral arteries.
- 4. (original) The method of claim 1 wherein the estrogen beta receptor agonist is  $5\alpha$ -androstane- $3\beta$ ,  $17\beta$ -diol.
- 5. (original) The method of claim 1 wherein the estrogen beta receptor agonist is a derivative of  $5\alpha$ -androstane- $3\beta$ ,  $17\beta$ -diol that has estrogen beta receptor agonist activity.
- 6. (original) The method of claim 5 wherein the derivative of  $5\alpha$ -androstane- $3\beta$ ,  $17\beta$ -diol is selected from the group consisting of  $5\alpha$ -androstan- $3\beta$ ,  $17\beta$ -diol-3 hemisuccinate,

 $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-17-sulphate sodium salt,  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-3-acetate,  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-17-acetate,  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-diacetate,  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-dibenzoate,  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-dibenzoate,  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-diproprionate, and  $5\alpha$ -androstan- $3\beta$ , $17\beta$ -diol-17-hexahydrobenzoate.

- 7. (original) The method of claim 1 wherein the estrogen beta receptor agonist is epiestriol.
- 8. (previously presented) The method of claim 1 wherein the estrogen beta receptor agonist is diarylpropionitrile.
- 9. (previously presented) The method of claim 4 wherein the  $5\alpha$ -androstane- $3\beta$ ,  $17\beta$ -diol is administered to a patient and the amount of  $5\alpha$ -androstane- $3\beta$ ,  $17\beta$ -diol that is administered is sufficient to obtain a serum concentration of between 30 and 3000 pg/ml.
- 10. (original) The method of claim 9 wherein the amount of 5α-androstane3β,17β-diol that is administered is sufficient to obtain a serum concentration of between 30 and
  300 pg/ml.
- 11. (previously presented) The method of claim 1 wherein the estrogen beta receptor agonist is administered to a patient in concert with a hormone replacement therapy.

- 12. (original) The method of claim 11 wherein the hormone replacement therapy is selected from the group consisting of estrogen, androgen, and progestin therapy.
- 13. (previously presented) The method of claim 1 wherein the exposure of the vascular muscle cells to the estrogen beta receptor agonist is by administering the estrogen beta receptor agonist by topical application to skin of a patient.
- 14. (original) The method of claim 13 wherein the estrogen beta receptor agonist is in a topical preparation selected from the group consisting of a liquid, cream, gel, lotion, ointment, and transdermal patch.
- 15. (previously presented) The method of claim 1 wherein the exposure of the vascular muscle cells to the estrogen beta receptor agonist is by other than topical administration to skin.
- 16. (original) The method of claim 15 wherein the exposure is by oral, rectal, vaginal, topical, sublingual, nasal, intradermal, inhalation, or sustained implant administration routes.

17-23. (canceled)